



-1-

SEQUENCE LISTING

<110> Ward, Gary

Conant, Carolyn

Ward, Brian

<120> Toxoplasma Gondii Apical Membrane Antigen-1

<130> V00139.70050 (HCL/MXA)

<140> US 10/039,770

<141> 2001-11-09

<150> US 60/247,870

<151> 2000-11-09

<160> 3

<170> PatentIn version 3.0

<210> 1

<211> 541

<212> PRT

<213> toxoplasmosis gondii

<400> 1

Met Gly Leu Val Gly Val Gln Val Leu Leu Val Leu Val Ala Asp Cys
1 5 10 15

Thr Ile Phe Ala Ser Gly Leu Ser Ser Ser Thr Arg Ser Arg Glu Ser
20 25 30

Gln Thr Leu Ser Ala Ser Thr Ser Gly Asn Pro Phe Gln Ala Asn Val
35 40 45

Glu Met Lys Thr Phe Met Glu Arg Phe Asn Leu Thr His His His Gln
50 55 60

Ser Gly Ile Tyr Val Asp Leu Gly Gln Asp Lys Glu Val Asp Gly Thr
65 70 75 80

Leu Tyr Arg Glu Pro Ala Gly Leu Cys Pro Ile Trp Gly Lys His Ile
85 90 95

Glu Leu Gln Gln Pro Asp Arg Leu Pro Tyr Arg Asn Asn Phe Leu Glu
100 105 110

Asp Val Pro Thr Glu Lys Glu Tyr Lys Gln Ser Gly Asn Pro Leu Pro
115 120 125

Gly Gly Phe Asn Leu Asn Phe Val Thr Pro Ser Gly Gln Arg Ile Ser
130 135 140

Pro Phe Pro Met Glu Leu Leu Glu Lys Asn Ser Asn Ile Lys Ala Ser
145 150 155 160

Thr Asp Leu Gly Arg Cys Ala Glu Phe Ala Phe Lys Thr Val Ala Met
165 170 175

Asp Lys Asn Asn Lys Ala Thr Lys Tyr Arg Tyr Pro Phe Val Tyr Asp
180 185 190

Ser Lys Lys Arg Leu Cys His Ile Leu Tyr Val Ser Met Gln Leu Met
195 200 205

Glu Gly Lys Lys Tyr Cys Ser Val Lys Gly Glu Pro Pro Asp Leu Thr
210 215 220

Trp Tyr Cys Phe Lys Pro Arg Lys Ser Val Thr Glu Asn His His Leu
225 230 235 240

Ile Tyr Gly Ser Ala Tyr Val Gly Glu Asn Pro Asp Ala Phe Ile Ser
245 250 255

Lys Cys Pro Asn Gln Ala Leu Arg Gly Tyr Arg Phe Gly Val Trp Lys
260 265 270

Lys Gly Arg Cys Leu Asp Tyr Thr Glu Leu Thr Asp Thr Val Ile Glu
275 280 285

Arg Val Glu Ser Lys Ala Gln Cys Trp Val Lys Thr Phe Glu Asn Asp
290 295 300

Gly Val Ala Ser Asp Gln Pro His Thr Tyr Pro Leu Thr Ser Gln Ala
305 310 315 320

Ser Trp Asn Asp Trp Trp Pro Leu His Gln Ser Asp Gln Pro His Ser
325 330 335

Gly Gly Val Gly Arg Asn Tyr Gly Phe Tyr Tyr Val Asp Thr Thr Gly
340 345 350

Glu Gly Lys Cys Ala Leu Ser Asp Gln Val Pro Asp Cys Leu Val Ser
355 360 365

Asp Ser Ala Ala Val Ser Tyr Thr Ala Ala Gly Ser Leu Ser Glu Glu
370 375 380

Thr Pro Asn Phe Ile Ile Pro Ser Asn Pro Ser Val Thr Pro Pro Thr
385 390 395 400

Pro Glu Thr Ala Leu Gln Cys Thr Ala Asp Lys Phe Pro Asp Ser Phe
405 410 415

Gly Ala Cys Asp Val Gln Ala Cys Lys Arg Gln Lys Thr Ser Cys Val
420 425 430

Gly Gly Gln Ile Gln Ser Thr Ser Val Asp Cys Thr Ala Asp Glu Gln
435 440 445

Asn Glu Cys Gly Ser Asn Thr Ala Leu Ile Ala Gly Leu Ala Val Gly
450 455 460

Gly Val Leu Leu Leu Ala Leu Leu Gly Gly Cys Tyr Phe Ala Lys
465 470 475 480

Arg Leu Asp Arg Asn Lys Gly Val Gln Ala Ala His His Glu His Glu
485 490 495

Phe Gln Ser Asp Arg Gly Ala Arg Lys Lys Arg Pro Ser Asp Leu Met
500 505 510

Gln Glu Ala Glu Pro Ser Phe Trp Asp Glu Ala Glu Glu Asn Ile Glu
515 520 525

Gln Asp Gly Glu Thr His Val Met Val Glu Gly Asp Tyr
530 535 540

<210> 2

<211> 2507

<212> DNA

<213> toxoplasmosis gondii

<400> 2
ggtgaggag cgcggccata cagtcatcaa tcgaacactg agacgaagca catggggctc 60
gtgggcgtac aagtttgct gtttctgtg gcggattgca ccatattcgc atcgggactc 120
agctcaagca caaggtctcg cgagtcgcag acgctgagtg ctagcacgtc gggaaatccc 180

tttcaggcaa atgttagagat gaaaaccttc atggaaagat tcaacctaac tcatacatcat	240
cagtctggta tttacgtcga ccttggacaa gacaaggaag ttgatggcac attataccgg	300
gagcctgcgg gggtgtgtcc catttgggaa aagcacatcg aactccagca gccggaccgg	360
cttccgtacc gtaacaactt cttggaaagat gttccgactg aaaaagaata caaacagtca	420
ggaaatcctt tgcccggagg cttcaacttg aatttcgtga cgccctagcgg gcagcgaatt	480
tcaccatbtc ccatggaaact tcttggaaaa aatagcaaca tcaaggcgag tacggatctt	540
gggaggtgcg ccgagtttgc cttaagacg gtcgctatgg ataaaaacaa taaggcgacg	600
aagtaccgtt acccatttgt ttatgactcc aagaagcgac tgtgccacat cctctacgta	660
tcgatgcagc tcatggaggg taaaaagtac tgttcagtca agggcgaacc tccagatctc	720
acatggatt gcttcaagcc ccgaaagagt gttacggaga atcatcatct catctacgga	780
tcggcctatg ttggagagaa cccagatgcg ttcatcagta aatgccccaa tcaagctctt	840
cgcggttaca ggttcgggtgt ttggagaaaa ggccgttgcc tcgactacac tgaattgacc	900
gacactgtga tagaacgtgt tgagtcaaag gcacagtgtc gggtgaaaac ctttgaaaac	960
gacggggtcg cgagtgacca accccatacg tatccactga cgtcgcaagc atcatggaac	1020
gattggtggc ctctccacca gagtgaccaa cctcactcag gtggcggtgg gcgttaattac	1080
ggtttctact acgtggacac gactggagag ggcaagtgtc cactctctga ccaggtaccc	1140
gactgcctgg tgcggattc tgccggcgtg tcgtatacag cagcggggag tttgtctgaa	1200
gagacgcccga atttcataat tccgtcaaat ccctctgtta ctccgccaac gcccggagacg	1260
gcacttcagt gcacggccga caagttcccc gactcttcg gtgcctgcga cggtcaagcc	1320
tgtaaaagac agaagacgtc ctgcgttggc ggacagattc aaagtactag cgtcgactgc	1380
accgcggacg aacaaaatga atgtggctct aacactgcgt tgatcgctgg actcgccgta	1440
ggaggggttc tgctgttggc tcttctagga ggaggctgtc acttcgcgaa gaggttggac	1500
agaaaacaaag gcgtccaggc ggctcatcat gaacatgagt ttcaagtcaaga cagaggtgct	1560
cgaaaaaaaaga ggccaagcga tctcatgcaa gaggctgaac cgtcggtttg ggatgaggca	1620
gaggagaaca ttgaacaaga tggggaaaaca catgttatgg tcgagggggaa ttacttaggt	1680
cagaagaaac tgggtacagt tttccctca gaatgcgtc gttcgagaac aagttttctc	1740
ttttgttgc cttgatcaac aggacagtat aagttgtcgg cacatcatgc gcacacatga	1800
acacatgtat actttgtctg cgtgccgagc tgctgtgtgt caccgaccgt ctgtggctcg	1860

cctgagccaa taaattattt	caacggctgt ttttatgg cagtgcgtg tgttggatt	1920
catgtgotta caaaggatgt	cccgatgcc agcgtgcga caaacgtca ttttttata	1980
ttagcctagt aaattgattt	agtgcctgtg cacttcgtcg attccaattt gaccattca	2040
ggaaggggaa cgccgtcagt	aaaatgcctt gttgagtcgt ttttctgata ctgattttca	2100
tgccggaaagc gtatgcagtg	ctaaatgtac catttggaat ttgtcgtagg tcgacacaaa	2160
cagttgtgat tacggttctc	gacgctagtg cgccaaatga agctcgcaa acaagggtgt	2220
aaggcttcat	atctgacaac gcagaacaac gcagccgtt agtaggttgc gcctgcccc	2280
gtgaaatcg	cagtgcctta ccgtttcat gtgcgtacca ccgaaggcgc ttccgtttc	2340
tttcatggcg	gctaggaaaa tctatgaaag gttaaccttc cattaagggt cgggacgtgc	2400
gttaaccatgc	acaagaacag cgattccgta gtgcgtc ttacgctgtt gacattatgt	2460
cgc当地	catatcgat taaacgtacg gaagaacgcc aaaaaaaa	2507

<210> 3

<211> 21

<212> PRT

<213> *Toxoplasma gondii*

<400> 3

Glu	Phe	Gln	Ser	Asp	Arg	Gly	Ala	Arg	Lys	Lys	Arg	Pro	Ser	Asp	Leu
1					5				10					15	

Met	Gln	Glu	Ala	Cys
			20	